

# Intel® 440MX Entry PrPMC Platform

## Product Highlights

### Formfactor:

- Single width, standard length PCI Mezzanine Card (74mm x 149mm). Vertical height adheres to the 13.5mm standard
- Complies with VITA32-199x Draft 0.41

### Processor Support:

- Intel® Celeron® processor - Ultra Low Power at 300 MHz, Low Power at 400 MHz
- Intel® Pentium® III processor - Low Power at 400-700 MHz in the BGA 2 socket to address various price/performance needs. Key performance advancements include Internet Streaming SIMD instructions, an advanced transfer cache architecture, and a processor system bus speed of 100 MHz.

### Chipset:

- Intel® 440MX integrated low-power chipset
  - 100 MHz system bus
  - 100 MHz memory bus
  - One ATA 33 Channel (Compact Flash)
  - Two USB ports

### Memory:

- SDRAM at 100 MHz (PC100)
- Scalable from 32-128 MB

### Contents:

- One PrPMC module, Carrier Card, Linux® Pre-Loaded, CD containing Wind River® RTOS, Users Manual, Design Guide

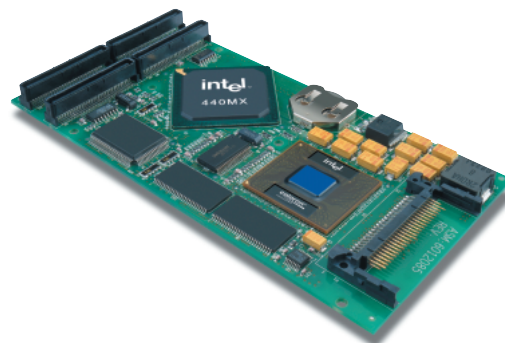
## Benefits for Developers

### Time to Market:

Switching and development costs are minimized by the development of a complete HW/SW ecosystem that supports the implementation of Intel Architecture based PrPMC product offerings.

### Scalable and Flexible:

Intel Architecture based PrPMC designs work to minimize the engineering changes needed to populate higher speed processors in the PrPMC form factor by separating the compute engine from the I/O on the carrier card. The scalability of these PrPMC modules should provide the ability for developers to add more performance



rich software features and support more channels without undertaking complete hardware re-designs

### Application Support:

The platform is based on Intel architecture, and therefore should be familiar to most programmers. The small, scalable, low power design makes this platform ideal for switching, imaging, and control applications.

## Product Overview

The Intel 440MX PrPMC platform is targeted for the ultra-dense telecom server market segment. This market segment typically requires computing engines with only moderate performance, with a priority on size and thermal characteristics. The Processor PMC (PrPMC) form factor has emerged as a compelling method to implement these engines.

The Intel 440MX PrPMC platform is a generic compute engine (including processor, chipset, and memory) implemented as a single component on the Processor PMC (PrPMC) form factor. This module is focused on delivering the lowest power, and lowest cost consumption currently possible with embedded low power IA content.

The Intel 440MX PrPMC Platform consists of an Intel Low-Power or Ultra Low Power processor, Intel® 440MX chipset, PC100 SDRAM, SuperIO chip, and necessary support logic. This functionality is designed into a PCI Mezzanine Card (PMC) form factor and closely follows the Processor PMC (PrPMC) draft standard. This design includes electricals which have been optimized for Intel architecture to allow for faster time to market and lower costs.

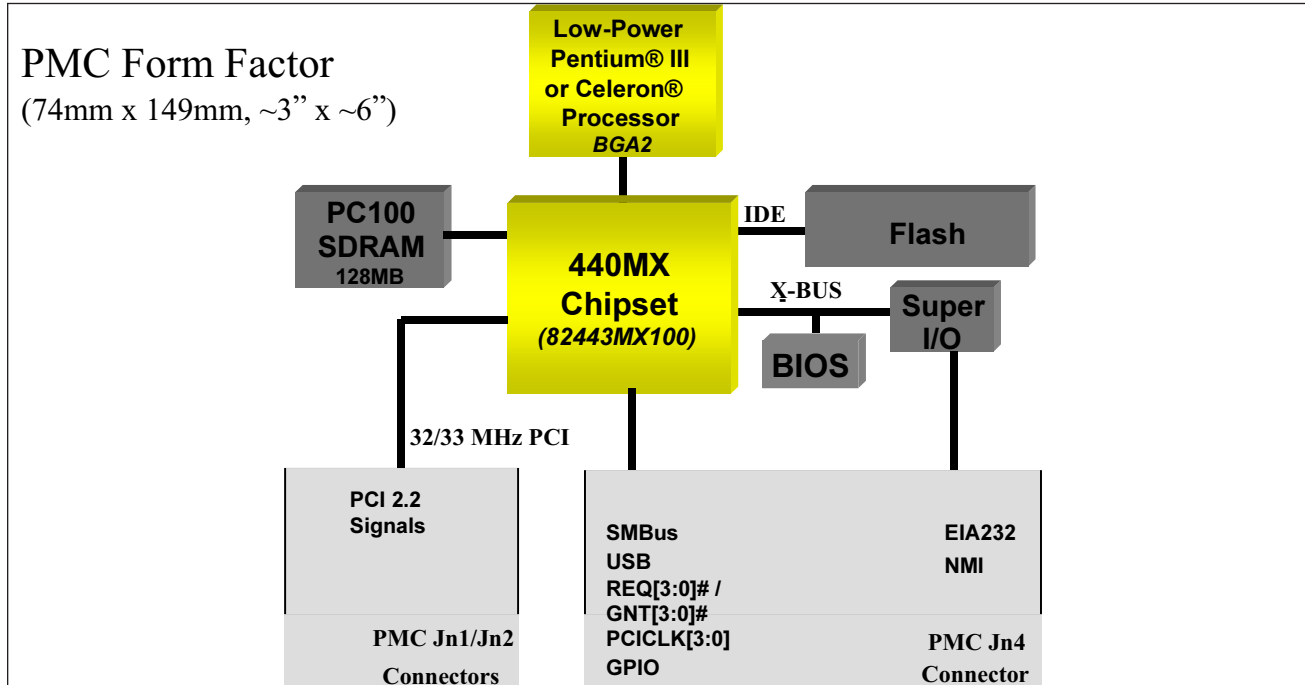
## Third Party Vendor Support

### OS:

The Intel® 440MX PrPMC platform kit includes a hard drive with a pre-loaded image of Linux\*. This will be the primary OS for the “out of the box” experience. This image will include console redirection to allow for headless operation of the system.

### BIOS Support:

All major BIOS products are supported.



Block Diagram

## Intel Access

Developer's Site	<a href="http://developer.intel.com">developer.intel.com</a>
Embedded Intel® Architecture Home Page	<a href="http://developer.intel.com/design/intarch">developer.intel.com/design/intarch</a>
Other Intel Support:	<a href="http://developer.intel.com/design/litcentr">developer.intel.com/design/litcentr</a>
Intel Literature Center	(800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

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